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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Shuichi KOHAYASHI et al.

Application No.: 10/577,936

Filed: May 3, 2006

Docket No.: 127912

For: METAL-COATED SUBSTRATE AND MANUFACTURING METHOD OF THE SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of one or more non-English language reference is discussed in the present specification. See References 2 - 4 and 10.
- ☒ 3. In accordance with 37 CFR §1.98(a)(2)(ii), copies of any U.S. patents and patent application publications are not attached.
- ☒ 4. An English language Abstract of one or more non-English language reference is attached hereto. See References 4 - 9.

- ☒ 5. A computer-generated English language translation of one or more Japanese Patent Publication cited herein has been obtained from the website of the Japanese Patent Office (<http://www.jpo.go.jp>), and is attached, but has not been reviewed for accuracy. See References 4 - 9.

Respectfully submitted,



James A. Oliff  
Registration No. 27,075


Steven W. Allis  
Registration No. 50,532

JAO:SWA/jtp

Date: May 22, 2006

**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**  
**Telephone: (703) 836-6400**

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Form PTO-1449 (REV. 1/06)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 127912		APPLICATION NO. 10/577,936	
INFORMATION DISCLOSURE STATEMENT							
(Use several sheets if necessary)							
							
U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Name			
	1	4,543,295	9/24/1985	ST. CLAIR et al.			
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Country	With English Abstract	With English Translation	
	2	JP-A-60-157286	8/17/1985	Japan			
	3	JP-A-61-47015	3/7/1986	Japan			
	4	JP-A-2001-030847	2/6/2001	Japan	X	X	
	5	JP-A-2000-151047	5/30/2000	Japan	X	X	
	6	JP-A-2000-151046	5/30/2000	Japan	X	X	
	7	JP-A-2000-263693	9/26/2000	Japan	X	X	
	8	JP-A-2003-133666	5/9/2003	Japan	X	X	
	9	JP-A-2002-192652	7/10/2002	Japan	X	X	
OTHER DOCUMENTS							
Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)					
	10	Takehiro Miyashita et al., "The Effect of Surface Roughness on the Adhesion of Copper Thin Film to Polyimide Substrate"					
		Vacuum Vol. 39, first edition, 1996.					
EXAMINER				DATE CONSIDERED			
/Monique Jackson/				12/15/2008			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: May 22, 2006

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /MJ/

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/017470

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.<sup>7</sup> B32B15/08, H05K3/06, 3/24

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.<sup>7</sup> B32B15/08, H05K3/06, 3/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-151047 A (Sony Chemicals Corp.), 30 May, 2000 (30.05.00), Claims (Family: none)	1-3, 5-9, 13-16 4, 10-12
Y		
X	JP 2000-151046 A (Sony Chemicals Corp.), 30 May, 2000 (30.05.00), Claims (Family: none)	1-3, 5-9, 13-16 4, 10-12
Y		
Y	JP 2000-263693 A (GA-TEK Inc.), 26 September, 2000 (26.09.00), Claims & EP 1037511 A2                      & US 6221176 B1	4, 10-12

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

18 January, 2005 (18.01.05)

Date of mailing of the international search report

08 February, 2005 (08.02.05)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

Form PCT/ISA/210 (second sheet) (January 2004)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /MJ/

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/017470

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2003-133666 A (Toray Industries, Inc.), 09 May, 2003 (09.05.03), Claims (Family: none)	1-16
A	JP 2002-192652 A (Gunze Ltd.), 10 July, 2002 (10.07.02), Claims (Family: none)	1-16